

Discipline: Survey and Mapping

Model File Type: Survey and Mapping Plan

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	V-ANNO-DIMS	V----DIP-	Witness/extension lines, dimension terminators, dimension text	0	V	V	V
2	V-ANNO-KEYN	V----KEP-	Reference keynotes with associated leaders	0	V	V	V
5	V-ANNO-NOTE	V----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	V-ANNO-NPLT	V----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	V-ANNO-PATT	V----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	V-ANNO-SYMB	V----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	V-ANNO-TEXT	V----TEP-	Miscellaneous text and callouts with associated leaders	0	V	V	V
NA	V-ANNO-XREF	V----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Survey Lines							
8	V-SURV-DATA	V-SURVDAM-	Survey data (benchmarks and horizontal control points or monuments)	0	0.35	M/6	M/5
9	V-SURV-LINE	V-SURVLIM-	Survey, baseline, and control line	2	0.50	C/4	C/7
10	V-SURV-IDEN	V-SURVIDM-	Survey, baseline, and control line annotation	0	0.35	M/6	M/5
Buildings and Structures							
11	V-BLDG-OTLN	V-BLDGOTM-	Buildings and other structures	0	0.70	W/7	W/0
12	V-BLDG-IDEN	V-BLDGIDM-	Building and other stucture annotation	0	0.35	Y/2	Y/4
Site							
13	V-SITE-FENC	V-SITEFEM-	Fences and handrails	0, FENCE	0.35	M/6	M/5
14	V-SITE-FEID	V-SITEFIM-	Fence, handrail, ramp, sign, and trail annotation	0	0.35	M/6	M/5
15	V-SITE-STRC	V-SITESRM-	Structures (bridges, sheds, foundation pads, footings, etc.)	0	0.35	22	22
16	V-SITE-IDEN	V-SITEIDM-	Existing site feature/structure annotation	0	0.35	M/6	M/5
17	V-SITE-OTLN	V-SITEOTM-	Existing site features (play structures, bike racks, benches, recreational equipment)	0	0.50	C/4	C/7
18	V-SITE-EROS	V-SITEERM-	Riprap, revetments/stone protection, breakwaters, dikes, jetties, and drains	0	0.25	R/1	R/3
19	V-SITE-WATR	V-SITEWTM-	Water features	0	0.35	162	33
20	V-SITE-STRS	V-SITESTM-	Stairs and ramps	0	0.35	M/6	M/5
21	V-SITE-WALK	V-SITEWAM-	Walks, trails, and bicycle paths	0	0.35	Y/2	Y/4
22	V-SITE-VEGE	V-SITEVEM-	Existing treelines and vegetation	0	0.35	82	18
Utilities (for more detailed surveys, use Survey and Mapping Utility model files)							
23	V-UTIL-SSWR	V-UTILSSM-	Sanitary lines and manholes	0, SSWBF	0.50	C/4	C/7
24	V-UTIL-SSID	V-UTILSDM-	Sanitary annotation	0	0.35	Y/2	Y/4
25	V-UTIL-WATR	V-UTILWAM-	Water lines, hydrants, tanks	0, WATERL	0.50	C/4	C/7
26	V-UTIL-WAID	V-UTILWIM-	Water annotation	0	0.35	Y/2	Y/4
27	V-UTIL-NGAS	V-UTILNGM-	Gas lines, features, and valves	0	0.50	C/4	C/7
28	V-UTIL-NGID	V-UTILNIM-	Gas annotation	0	0.35	Y/2	Y/4
29	V-UTIL-STEM	V-UTILSEM-	Steam lines and annotation	0	0.35	Y/2	Y/4
30	V-UTIL-STRM	V-UTILSTM-	Storm sewer lines, culverts, manholes, and headwalls	0, STRMBF	0.50	C/4	C/7
31	V-UTIL-STID	V-UTILSIM-	Storm sewer annotation	0	0.35	Y/2	Y/4
32	V-UTIL-ELEC	V-UTILELM-	Power lines, lights, telephone poles, communication lines	0	0.50	C/4	C/7
33	V-UTIL-ELID	V-UTILEIM-	Power/communication annotation	0	0.35	Y/2	Y/4

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Pavements/Transportation						
34	V-PAVE-ROAD	V-PAVEROM-	Roads, parking lots, railroads, airfield pavements	0	0.35	Y/2 Y/4
35	V-PAVE-IDEN	V-PAVEIDM-	Road, parking lot, railroad, airfield pavement annotation	0	0.35	Y/2 Y/4
36	V-PAVE-PATT	V-PAVEPAM-	Joint patterns, text and dimensions	0	0.35	Y/2 Y/4
37	V-PAVE-MARK	V-PAVEMAM-	Pavement markings and signs	0	0.35	Y/2 Y/4
Topography						
38	V-TOPO-DTCH	V-TOPODTM-	Ditches and swales	0	0.25	G/3 G/2
39	V-TOPO-BORE	V-TOPOBOM-	Boring locations	0	0.35	M/6 M/5
40	V-TOPO-COOR	V-TOPOCOM-	Coordinate grid ticks and text	0	0.25	R/1 R/3
41	V-TOPO-MAID	V-TOPOMAM-	Major contours - annotation	0	0.35	Y/2 Y/4
42	V-TOPO-MAJR	V-TOPOJM-	Major contours	0	0.35	Y/2 Y/4
43	V-TOPO-MIID	V-TOPOMIM-	Minor contours - annotation	0	0.25	G/3 G/2
44	V-TOPO-MINR	V-TOPOMM-	Minor contours	0	0.25	G/3 G/2
48	V-TOPO-SPOT	V-TOPOSQM-	Spot elevations	0	0.35	Y/2 Y/4
49	V-TOPO-SLTP	V-TOPOSTM-	Top/toe slopes	0	0.35	M/6 M/5
50	V-TOPO-BKLN	V-TOPOBKM-	Breaklines	4	0.70	W/7 W/0
51	V-TOPO-DTMT	V-TOPODTM-	DTM triangles	0	0.35	22 22
52	V-TOPO-DTMP	V-TOPODPM-	DTM points	0	0.35	M/6 M/5
Aerial Survey						
53	V-AERI-PATH	V-AERIPAM-	Aerial flight lines/paths	11	0.35	22 22
54	V-AERI-BNDY	V-AERIBNM-	Aerial photography boundaries	0	0.35	M/6 M/5
55	V-AERI-INDX	V-AERIINM-	Aerial photo index	0	0.70	W/7 W/0

Note: V = Varies, NA = Not Applicable